

Serial No.: 10/037,982

PD-970358A

AMENDMENT AND PRESENTATION OF CLAIMS

Please replace all prior claims in the present application with the following claims, in which
Currently pending claims 1-7 and 12-21 are rejected.

1 – 36. (Cancelled)

37. (NEW) A method for processing data for transmission comprising:
partitioning a set of orthogonal codes into a first subset and a second subset;
partitioning a first group of data bits into first packets, wherein the first group of data bits are
encoded by assigning the first packets to a corresponding member of the first subset; and
partitioning a second group of data bits into second packets, wherein the second group of data
bits are encoded by assigning the second packets to a corresponding member of the second subset.

38. (NEW) A method as defined in claim 37, wherein the encoded data bits are transmitted over a
communication system that includes a Code Division Multiple Access (CDMA) communication system.

39. (NEW) A method as defined in claim 37, wherein the first group of data bits represents an
audio signal, a video signal, or a data signal.

40. (NEW) A method as defined in claim 37, wherein the second group of data bits represents an
audio signal, a video signal, or a data signal.

41. (NEW) A method as defined in claim 37, wherein the first group of data bits is associated with
a lower power level than the second group of data bits and the number of members in the first subset is
higher than the number of members in the second subset.

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42. (NEW) A method as defined in claim 37, wherein the first group of data bits is associated with a higher data rate than the second group of data bits and the number of members in the first subset is higher than the number of members in the second subset.

43. (NEW) A method as defined in claim 37, wherein the first group of data bits is associated with a lower error rate than the second group of data bits and the number of members in the first subset is higher than the number of members in the second subset.

44. (NEW) An apparatus for processing a signal, the apparatus comprising:
a signal partitioner for partitioning data bits corresponding to the signal into packets having a number of members; and
a code partitioner for assigning a subset of orthogonal codes to the packets, the subset including at least three codes.

45. (NEW) An apparatus as defined in claim 44, further comprising:
an encoder configured to map the packets to the subset of the orthogonal codes to output an encoded signal; and
a transmitter for transmitting the encoded signal.

46. (NEW) An apparatus as defined in claim 44, wherein the signal represents either an audio signal, a video signal, or a data signal.

47. (NEW) An apparatus as defined in claim 44, wherein the encoded signal is transmitted over a communication system that includes a Code Division Multiple Access (CDMA) communication system.

48. (NEW) An apparatus as defined in claim 44, wherein the signal partitioner comprises software performed by a microprocessor.

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49. (NEW) An apparatus as defined in claim 44, wherein the signal partitioner comprises an integrated circuit.

50. (NEW) An apparatus as defined in claim 44, wherein the code partitioner comprises software performed by a microprocessor.

51. (NEW) An apparatus as defined in claim 44, wherein the code partitioner comprises an integrated circuit.

52. (NEW) An apparatus as defined in claim 45, wherein the encoder comprises software performed by a microprocessor.

53. (NEW) An apparatus as defined in claim 45, wherein the encoder comprises an integrated circuit.